

## Abstract

### MELT PROCESSABLE POLY(ETHYLENE OXIDE) FIBERS

Melt processable, flushable polymer fibers and methods of making melt processable, flushable polymer fibers are disclosed. The fibers comprise poly(ethylene oxide). Preferably, the poly(ethylene oxide) is modified by grafting polar vinyl monomers, such as poly(ethylene glycol) methacrylate and 2-hydroxyethyl methacrylate, onto poly(ethylene oxide). The modified poly(ethylene oxide) has improved melt processability and can be used to melt process poly(ethylene oxide) fibers of thinner diameters.